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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/046,563	01/16/2002	William Damian Hogan	4009-9	1785
7590 11/02/2004			EXAMINER	
NIXON & VANDERHYE P.C.			LY, NGHI H	
8th Floor 1100 North Glebe Road			ART UNIT	PAPER NUMBER
Arlington, VA 22201			2686	
		•	DATE MAILED: 11/02/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/046,563	HOGAN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Nghi H. Ly	2686				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet wit	h the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statul Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a re oly within the statutory minimum of thirty I will apply and will expire SIX (6) MONT te, cause the application to become ABA	ply be timely filed (30) days will be considered timely. (35) THS from the mailing date of this communication. (ANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
2a) This action is FINAL . 2b) ⊠ Thi	This action is FINAL . 2b)⊠ This action is non-final.					
, , ,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-39 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-5,7-16,18-22,24-31,33,34 and 36-39</u> is/are rejected.						
7)⊠ Claim(s) <u>6,17,23,32 and 35</u> is/are objected to. 8)□ Claim(s) are subject to restriction and/or election requirement.						
Application Papers	4					
·· _	or					
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct		,				
11) The oath or declaration is objected to by the E	Examiner. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority documer application from the International Burea * See the attached detailed Office action for a lis	nts have been received. Its have been received in Apportity documents have been in the law (PCT Rule 17.2(a)).	oplication No received in this National Stage				
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)		ummary (PTO-413) /Mail Date				
Notice of Draitsperson's Patent Drawing Review (P10-946) Information Disclosure Statement(s) (PT0-1449 or PT0/SB/08 Paper No(s)/Mail Date	T	formal Patent Application (PTO-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless - .

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-5, 10-12, 16, 18-22, 26-28, 31, 33 and 34 are rejected under 35 U.S.C. 102(e) as being anticipated by Einola et al (US 6,438,370).

Regarding claims 1, 10, 18, 26 and 33, Einola teaches a method implemented in a mobile radio terminal for reducing signaling associated with the mobile radio terminal entering a new geographic coverage area (see column 3, lines 40-67), comprising: establishing a connection with a radio access network (see fig.4, wireless connection between 405 and BS), receiving from the radio access network information associated with one of the geographic coverage areas indicating whether the one geographic coverage area requires a geographic coverage area update procedure (see column 3, lines 40-67 and see column 4, lines 1-45), during the connection, selecting the one geographic coverage area (see column 3, lines 40-67 and see column 4, lines 1-45), and determining whether to perform a geographic coverage area update procedure depending on the received information associated with the one geographic coverage area (also see column 3, lines 40-67 and see column 4, lines 1-45).

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Regarding claims 2, 12 and 28, Einola further teaches the information associated with one or more geographic coverage areas indicates restricted geographic coverage areas that require a geographic coverage area update procedure (column 3, lines 40-67 and see column 4, lines 1-45, see "whether a notification to the MS for location update is needed." Therefore, the teaching of Einola inherently teaches Applicant's "areas indicates restricted geographic coverage areas that require a geographic coverage area update procedure").

Regarding claims 3 and 20, Einola further teaches the information associated with one or more geographic coverage areas indicates geographic coverage areas that do not require a geographic coverage area update procedure (see column 3, lines 40-67).

Regarding claims 11 and 27, Einola further teaches the mobile radio terminal uses the information to determine whether to perform a geographic coverage area update procedure before selecting the one geographic coverage area (see column 3, lines 40-67).

Regarding claims 4, 5, 16, 21, 22, 31 and 34, Einola further teaches the geographic coverage area update procedure involves communication with a core network coupled to the radio access network (see column 8, lines 15-24 and see Fig.17, "PSTN" and "IP").

Regarding claim 19, Einola further teaches the information associated with the one geographic coverage area indicates that a geographic coverage area update

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procedure is required (see column 3, lines 40-67).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 5. Claims 7-9, 13-15, 24, 25, 29, 30 and 36-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Einola et al (US 6,438,370) in view of Bharatia (US 6,763,233).

Regarding claims 7, 13, 24, 29 and 36, Einola teaches the method in claim 1. Einola does not specifically disclose the geographic coverage area is a location area, the radio access network is a UMTS terrestrial radio access network (UTRAN), and the

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mobile radio terminal is in a connected mode.

Bharatia teaches the geographic coverage area is a location area, the radio access network is a UMTS terrestrial radio access network (UTRAN), and the mobile radio terminal is in a connected mode (see column 9, lines 55-67).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teaching of Bharatia into the system of Einola in order to support wireless communications for 2G and 3G mobile terminals.

Regarding claims 8, 9, 14, 15, 25, 30 and 37, Einola further teaches the location area access indicator is a flag which when set indicates that a location update is required when entering the location area, and when not set indicates that a location update is not required when entering the location area (see column 4, lines 1-45).

Regarding claim 38, Einola teaches a system broadcast message format transmitted from a terrestrial radio access network over a radio interface to mobile radio terminals (see fig.1, wireless connection between handsets 110 and thee base station 118), comprising: a system information message identification field (see column 4, lines 1-45), a location area identification field (see column 3, lines 40-67 and see column 4, lines 1-45), and a location area access restriction field (column 3, lines 40-67 and see column 4, lines 1-45, see "whether a notification to the MS for location update is needed." Therefore, the teaching of Einola inherently teaches Applicant's "a location area access restriction field indicating whether a mobile radio terminal in a connected mode with the network is required to perform a location area update procedure") indicating whether a mobile radio terminal in a connected mode with the network is

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required to perform a location area update procedure when entering the location area identified by the location area identification field (also see column 3, lines 40-67 and see column 4, lines 1-45).

Einola des not specifically disclose a network is a UMTS terrestrial radio access network (UTRAN).

Bharatia teaches a network is a UMTS terrestrial radio access network (UTRAN) (see column 9, lines 55-67).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teaching of Bharatia into the system of Einola in order to support wireless communications for 2G and 3G mobile terminals.

6. Claim 39 is rejected under 35 U.S.C. 103(a) as being unpatentable over Einola et al (US 6,438,370) in view of Bharatia (US 6,763,233) and further in view of Burgan et al (US 6,675,022).

Regarding claim 39, the combination of Einola and Bharatia teaches the system broadcast message format in claim 38. The combination of Einola and Bharatia does not specifically disclose the location area identification field includes a flag which is set for a location area that is shared by two operators and which is not set for a location area that is not shared by two operators.

Burgan teaches the location area identification field includes a flag which is set for a location area that is shared by two operators and which is not set for a location area that is not shared by two operators (see column 16, lines 21-25).

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Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teaching of Burgan into the system of Einola and Bharatia in order to reduce the likelihood of service coverage holes in the wide area communication system (see Burgan, column 4, lines 50-53).

Allowable Subject Matter

7. Claims 6, 17, 23, 32 and 35 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Regarding claims 6, 17, 23, 32 and 35, Einola teaches the method in claim 1. Einola fails to teach the radio access network is shared by two operators and the information indicates that the geographic coverage area update procedure should be performed for geographic coverage areas that are shared by the two operators and the geographic coverage area update procedure need not be performed for geographic coverage areas that are not shared by the two operators.

Conclusion

- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - a. Chang (US 6,487,406) teaches PCS-to-mobile IP internetworking.
- b. Tiedemann, Jr. (US 5,289,527) teaches mobile communication device registration method.

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c. Laurent (US 6,483,815) teaches power consumption reduction method in a

digital mobile radio system and a mobile radio station.

9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Nghi H. Ly whose telephone number is (703) 605-5164.

The examiner can normally be reached on 8:30 am-5:30 pm Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Marsha Banks-Harold can be reached on (703) 305-4379. The fax phone

number for the organization where this application or proceeding is assigned is 703-

872-9306.

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Business Center (EBC) at 866-217-9197 (toll-free).

Nghi H. Ly

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